

**PRODUCTION OF ALPHA-OLEFIN LOW POLYMER**

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**Abstract of JP8134131**

**PURPOSE:** To industrially and advantageously obtain the subject low polymer in high yield and selectivity using a long-lived catalyst by bringing an  $\alpha$ -olefin into contact with a Cr-based catalyst comprising plural kinds of compounds containing a specific compound containing a halogen.

**CONSTITUTION:** (A) An  $\alpha$ -olefin is fed to a reactional system and (B) a catalyst system comprising a combination of respective catalytic amounts of (BI) a Cr compound, (BII) a compound containing nitrogen which is an amine, an amide or an imide, (BIII) an alkylaluminum compound and a compound containing a halogen which is straight-chain hydrocarbons substituted with  $\geq 3$  halogens such as a compound of the formula  $[X_{<1>}$  to  $X_{<8>}$  are each H or the halogen and three or more of the  $X_{<1>}$  to  $X_{<5>}$  are the halogens; (1) is 0-8] is used as a chromium-based catalyst. The components (BI) to (BIV) of the component (B) are fed to the reactional system so as not to bring the component (BI) into contact with the component (BIII) before making both the components (A) and (B) coexist and initiating the low polymerizing reaction in a reactional solvent and the component (A) is brought into contact therewith to afford the objective low polymer.

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